

# Tahoe Sierra IRWM

## Project Template

Please provide information in the tables below:

### I. Project Proponent Information

<b>Agency/ Organization</b>	Washoe Tribe of Nevada and California - Washoe Environmental Protection Department (WEPD)
<b>Name of Primary Contact</b>	Norman Harry 775-265-8682
<b>Name of Secondary Contact</b>	Michelle Hochrein 775-265-8689
<b>Mailing Address</b>	919 Highway 395 South, Gardnerville NV 89410
<b>E-mail</b>	norman.harry@washoetribe.us; michelle.hochrein@washoetribe.us
<b>Phone (###)###-####</b>	775-265-8680 (WEPD front desk)
<b>Other Cooperating Agencies/Organizations/Stakeholders</b>	NA
<b>Is your agency/organization committed to the project through completion? If not, please explain</b>	Yes

### II. General Project Information

<b>Project Title</b>	Woodfords Community Water Infrastructure Upgrades
<b>Project Category</b>	<input checked="" type="checkbox"/> <b>Water Supply</b> <input type="checkbox"/> <b>Restoration</b> <input type="checkbox"/> <b>Storm Water/Flood Control</b>
<b>Project Description (Briefly describe the project, in 300 words or less)</b>	<p>Complete necessary upgrades to Woodfords Community Water System as recommended in Indian Health Services review of system deficiencies (see PWSID #0600362) and additional infrastructure improvements. The project benefits include replacing aging water infrastructure to preserve water supplies and increasing the fire protection capabilities in the community.</p> <ol style="list-style-type: none"><li>1. Replacement of tank hatch gasket</li><li>2. Assist WUMA with the development of a Cross-Connection Control Program with IHS oversight</li><li>3. Installation of vacuum breakers on all hose bibs</li><li>4. Installation of a secondary containment system for sodium hypochlorite feed barrel</li><li>5. Installation of corrosion prevention paint on wells and paint all raw pipes entering the buildings</li><li>6. Replacement of sample taps to prevent contamination</li><li>7. Evaluate and modify of the drain structure on the tank overflow to recommended height</li><li>8. Repair tank level indicator</li><li>9. Purchase new operating and maintenance tools and equipment</li><li>10. Explore and install an alternative water source ('Well C'). Possibility to review old community well 'East Well' and pumphouse for inclusion into community</li></ol>

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	<p>system (after required upgrades) or explore and install an alternative source</p> <p>11. If 'East Well' and associated pumphouse are not to be included in community system, infrastructure will be properly abandoned</p> <p>12. Update existing fire hydrants and install new hydrant at all line ends (6)</p> <p>13. Update and repair existing individual water meters and provide technological connections so that water use data may be efficiently collected</p> <p>14. Inspect, evaluate, map service lines, and repair (if necessary) all main and later water lines</p>	
<b>Project Prioritization:</b>	<b>Total number of projects submitted by your Agency:</b>	<b>2</b>
	<b>Agency Prioritization of this project (e.g., 3 of 5)</b>	<b>1 of 2</b>
<b>Does this project contribute to a larger Project (e.g., TMDL, EIP, Phase 2 of 3)? If so provide description.</b>	This project will be included in the community-wide water conservation plan and upcoming Climate Change Vulnerabilities Assessment and Adaptation Plan.	
<b>Political Support – List related MOUs, agreements or TACs currently in place.</b>	Letter of Support from the Woodfords Community Council, available upon request.	
<b>Project Location:</b>		
<b>Latitude:</b>	38°47'41.322" N	
<b>Longitude:</b>	119°45'13.431" W	
<b>Project Location Description (e.g., along the south bank of stream/river between river miles or miles from Towns/intersection and/or address):</b>	The Woodfords Community is located on Diamond Valley Road, between West Fork Carson River and Indian Creek, in Woodfords, Alpine County, California. The latitude and longitude noted above are the coordinates for the approximate center of the community.	

### III. Plan Objectives Addressed

For each of the objectives addressed by the project, provide a one to two sentence description of how the project contributes to attaining the objective and how the project will be quantified. If the project does not address any of the draft IRWM plan objectives, provide a one to two sentence description of how the project relates to a challenge or opportunity of the Region (see the bottom of page 4).

<b>Objectives:</b>	<b>Will the project address the objective?</b>	<b>Brief explanation of project linkage to selected Objective</b>	<b>Quantification</b> (e.g. acres of streams/wetlands restored or enhanced)
WQ1 - Meet approved TMDL standards in accordance with the attainment date, and participate in the development of future TMDLs.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		

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<b>Objectives:</b>	<b>Will the project address the objective?</b>	<b>Brief explanation of project linkage to selected Objective</b>	<b>Quantification</b> (e.g. acres of streams/wetlands restored or enhanced)
WQ2 – Reduce pollutant loads by implementing measures such as stormwater LID retrofits, erosion control/restoration to meet Water Quality Objectives (WQOs) for receiving water bodies established in the Basin Plan within the planning horizon.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
WQ3 - Implement water quality monitoring programs through planning horizon, and coordinate annually throughout the Region.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
WQ4 - Ensure that drinking water supplied by public water systems continues to meet Federal and State standards.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	The infrastructure upgrades will ensure health risks are minimized and water contamination is prevented according to Indian Health Services standards (Health Risk Priorities 0-4 as according to EPA’s Dime Deficiency Coding System.)	The water system for the 81 acre community of Woodfords, which serves 65 connections will be upgraded to ensure the supply meets Federal standards.
WQ5 - Restore degraded streams, wetlands, riparian and upland areas to re-establish natural water filtering processes.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
WQ6 -Operate and maintain, build, or replace infrastructure for reliable collection, treatment and disposal of wastewater.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		

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<b>Objectives:</b>	<b>Will the project address the objective?</b>	<b>Brief explanation of project linkage to selected Objective</b>	<b>Quantification</b> (e.g. acres of streams/wetlands restored or enhanced)
WS1 - Provide water supply to meet projected demands for a 20-year planning horizon.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	The project helps to maintain the water supply for the Woodfords Community. Installing an alternative water source ('Well C' or revitalization of 'East Well") will ensure the community has adequate water quality and quantity should Well A or B become compromised. Inspection, evaluation, and repair of entire system will reduce waterline leaks and prevent water delivery wastes.	Installation of 1 new well and inspection, evaluation, repair of entire main and lateral lines that serve 65 residential connections.
WS2 - Operate and maintain, build, or replace infrastructure to reliably supply water.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	The infrastructure repairs will upgrade the existing water system components to provide for more reliable and efficient infrastructure.	Increased reliability of water system for the 81 acre community of Woodfords, which serves 65 connections.
WS3 - Implement and promote water conservation measures and practices to meet state goals.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	The project will conserve water by inspecting, evaluating, and repairing aging and leaking waterlines. It will promote water conservation measure and practices with an emphasis on leak detection and identification of the highest priority waterlines for repair.	Increased conservation of the water supply for the 81 acre community of Woodfords, which serves 65 connections.
GWM1 - Maintain and monitor groundwater supply to assure future reliability.	<input type="checkbox"/> Yes <input type="checkbox"/> N/A		

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<b>Objectives:</b>	<b>Will the project address the objective?</b>	<b>Brief explanation of project linkage to selected Objective</b>	<b>Quantification</b> (e.g. acres of streams/wetlands restored or enhanced)
GWM2 - Promote groundwater protection activities for high quality groundwater, and advocate for improvements to impacted groundwater quality through public education.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
GWM3 - Manage groundwater for multiple uses (e.g. municipal/industrial/agricultural supply and environmental use).	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
ER1 - Enhance and restore water bodies, wetlands, riparian areas and associated uplands to support healthy watersheds, viable native fish, wildlife, and plant habitats.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
ER2 - Develop and implement programs to prevent the spread of existing invasive species and colonization of potential future invasive species.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
ER3 - Implement, in coordination with public and private landowners, activities to manage forest health and wildfire risks.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	The installation of additional fire hydrants and upgrade of existing hydrants will reduce the risk of wildfire spread throughout the rural community.	Reduced risk of wildfire spread in the 81 acre community of Woodfords.
ER4 - Minimize ecosystem impacts caused by existing and new development.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	This project will focus on repairing and reusing existing infrastructure where possible to prevent the ecosystem impacts caused by new utility development.	Conservation of existing vegetation and habitats in the 81 acre community of Woodfords.
IWM1 - Conduct local and regional water-related planning activities within the planning horizon as supported by current and future watershed science.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		

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<b>Objectives:</b>	<b>Will the project address the objective?</b>	<b>Brief explanation of project linkage to selected Objective</b>	<b>Quantification</b> (e.g. acres of streams/wetlands restored or enhanced)
IWM2 - Ensure collaboration among multiple jurisdictions within the Region for information exchange.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	The project will involve collaboration with federal and state partners, including Bureau of Land Management (BLM), IHS, and Alpine County in order to implement water conservation and infrastructure upgrade Best Management Practices (BMPs).	
IWM3 - Increase public education and awareness of watershed functions, protection and restoration needs to encourage stewardship by the public.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	This project will increase the Woodfords Community awareness of water conservation and protection through outreach efforts and community public meetings.	
IWM4 - Promote activities that reduce flood risk.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
IWM5 - Address climate change (e.g. water quality, water supply, groundwater recharge, flood management) in local and regional planning efforts and support efforts to continue improving the science.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	Through inspecting, evaluating, and repairing any leaking infrastructure in the community water system, this project will help to quantify community needs and identify climate change vulnerabilities within the system, which will assist in future planning for community maintenance and/or expansion in relation to climate change adaptation.	
IWM6 - Monitor water storage, release and exchange activities in order to improve coordination with regional planning.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		

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If no objectives are addressed; describe how the project relates to a challenge or opportunity of the Region:

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### Project Impacts and Benefits

Please provide a summary of the expected project benefits and impacts in the table below or check N/A if not applicable; **do not leave a blank cell.**

If applicable describe benefits or impacts of the project with respect to:		
<b>a. Native American Tribal Community considerations.</b>	<input type="checkbox"/> N/A	The Woodfords Community is part of the Washoe Tribe of Nevada and California, which is a federally recognized Native American tribe.
<b>b. Disadvantaged Community considerations<sup>1</sup>.</b>	<input type="checkbox"/> N/A	The Woodfords Community is 100% DAC, with a median household income of approximately \$28,000/year.
<b>c. Environmental Justice <sup>2</sup> considerations.</b>	<input type="checkbox"/> N/A	This project has environmental justice benefits, as it would ensure the water quality and quantity of the water supply for a minority community.
<b>d. Assist the Region in adapting to effects of climate change<sup>3</sup>.</b>	<input type="checkbox"/> N/A	This project will reduce water waste through repairing aging infrastructure and ensuring continued water quality in case of reduced water availability.
<b>e. Generation or reduction of greenhouse gas emissions (e.g. green technology).</b>	<input type="checkbox"/> N/A	Water conservation effort result in less potable water treatment and distribution, which has been identified as a high use of energy. Reducing the community energy usage related to water distribution will reduce the community's carbon footprint, through increased energy conservation, deferred new energy generation, and reduced peak energy demand.
<b>f. Other expected impacts or benefits that are not already mentioned elsewhere.</b>	<input checked="" type="checkbox"/> N/A	

1. A Disadvantaged Community is defined as a community with an annual median household (MHI) income that is less than 80 percent of the Statewide annual MHI. A map has been provided with the Project Template Instruction for reference.

2. Environmental Justice is defined as the fair treatment of people of all races, cultures, and incomes with respect to the development, adoption, implementation and enforcement of environmental laws, regulations and policies. An example of environmental justice benefit would be to improve conditions (e.g. water supply, flooding, sanitation) in an area of racial minorities

3. Climate change effects are likely to include increased flooding, extended drought, and associated secondary effects such as increased wildfire risk, erosion, and sedimentation.

#### IV. Resource Management Strategies (RMS)

For each resource management strategy employed by the project, provide a one to two sentence description in the table below of how the project incorporates the strategy. A description of the Resource Management Strategies can be found in Volume 2 of the 2009 California Water Plan here:

<http://www.waterplan.water.ca.gov/cwpu2009/index.cfm>



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Resource Management Strategy	Will the Project incorporate RMS?	Description, of how RMS to be employed if applicable
<b>Reduce Water Demand</b>		
Agricultural Water Use Efficiency	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Urban Water Use Efficiency	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	This project will reduce water waste and reinforce water efficiency through implementation of urban BMPs.
<b>Improve Operational Efficiency and Transfers</b>		
Conveyance - Regional / local	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	This project improves the Woodfords Community local drinking water supply conveyance infrastructure.
System Reoperation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Water Transfers	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>Increase Water Supply</b>		
Conjunctive Management & Groundwater	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	This project maintains the sustainability of the groundwater supply by promoting infrastructure leak detection/repair and water conservation.
Desalination	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Precipitation Enhancement		
Recycled Municipal Water	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Surface Storage -- Regional / Local	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>Improve Water Quality</b>		
Drinking Water Treatment and Distribution	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	This project improves the Woodfords Community drinking water distribution systems and enhances the sustainability of the water supply.
Groundwater and Aquifer Remediation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Matching Water Quality to Use	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pollution Prevention	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Salt and Salinity Management	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Urban Runoff Management	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>Practice Resources Stewardship</b>		
Agricultural Lands Stewardship	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Economic Incentives (Loans, Grants, and Water Pricing)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Ecosystem Restoration	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Forest Management	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Land Use Planning and Management	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Recharge Areas Protection	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

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Resource Management Strategy	Will the Project incorporate RMS?	Description, of how RMS to be employed if applicable
Water-dependent Recreation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Watershed Management	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Improve Flood Management		
Flood Risk Management	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Note: The following RMS have been omitted from the list: Conveyance-Delta and Surface Storage – CALFED.

Other RMS addressed and explanation:

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**V. Project Cost and Financing** - Please provide any estimates of project cost, sources of funding, and operation and maintenance costs, as well as, the source of the project cost in the table below.

<b>a. Project Costs</b>	<b>Requested Grant Amount</b>	<b>Cost Share: Non-State Fund Source (Local/Federal Funding Match)</b>	<b>Cost Share: Other State Fund Source</b>	<b>Total Cost</b>
1. Capital (2013 Dollars)	\$365,000	\$ OR <input checked="" type="checkbox"/> DAC	0	\$365,000
2. Annual Operations and Maintenance (O&M)		0	0	
<b>b. Can the Project be phased?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
<b>1. If so provide cost breakdown by phase(s)</b>	<b>Project Cost</b>	<b>O&amp;M Cost</b>	<b>Description of Phase</b>	
Phase 1	\$17,500	There are no O&M costs related to this phase.	Project Description items 1-9: Infrastructure upgrades	
Phase 2	\$110,000	There are no O&M costs related to this phase.	Project Description items 10-11: Provide alternative water source	
Phase 3	\$30,000	There are no O&M costs related to this phase.	Project Description item 12: Increase fire protection capacity	
Phase 4	\$107,500	There are no O&M costs related to this phase.	Project description item 13: Update water meters	
Phase 5	\$100,000	There are no O&M costs related to this phase.	Project description item 14: Inspect, evaluate, repair mains and laterals	
<b>c. List secured source(s) of funding for Project cost</b>	<b>Source(s)</b>		<b>Amount</b>	
	--		0	
<b>d. List proposed source(s) of unsecured funding and certainty of the sources for Project cost.</b>	--		0	
<b>e. Explain how operation and maintenance costs will be financed for the 25-year planning period for project implementation (not grant funded).</b>	O&M Costs are included in the Washoe Tribe Water Utility Management Authority annual budget.			
<b>f. Basis for project cost<sup>1</sup> (e.g. conceptual, planning, bid, etc.)</b>	Conceptual			
<b>g. Has a Cost/Benefit analysis been completed?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
<b>h. Please describe what impact there may be if the project is not funded. (300 words or less)</b>	An unfunded project would result in no additional water efficiency and saving, increased risk of exposure to unhealthy arsenic levels, no increase in community fire protection, and a lack of individual water use data collection for water conservation education purposes. The project does not necessary			

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	<b>need to be phased in order listed, project phases may be staggered differently depending on immediate need.</b>
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1. For the grant application a detailed project cost estimate will need to be provided with the following cost categories; per the IRWM PSP for Round 2, Implementation Grants: Direct Project Administration, Land Purchase/Easement, Planning/Design/Engineering/Environmental Documentation, Construction/Implementation, Environmental Compliance/Mitigation/Enhancement, Construction Administration, Other Costs, and Construction/Implementation Contingency.

**VI. Project Status and Schedule** -Please provide a status of the project, level of completion as well as a description of the activities planned for each project stage. If unknown enter **TBD**.

Project Stage	Check the Current Project Stage	Completed?	Description of Activities in Each Project Stage	Planned/Actual Start Date (mm/yr)	Planned/Actual Completion Date (mm/yr)
<b>a. Assessment and Evaluation</b>	X	X No	Assessment and evaluations for the upgrades to Woodfords Community Water System have been conducted by Indian Health Services, as outlined in their review of system deficiencies. Leak detection through water meter database review and line walks are ongoing.	1/1/2014	TBD
<b>b. Final Design</b>	X	X No	Final design has been completed for Phase 1. Final design has not been completed for Phases 2-5.	1/1/2014	TBD
<b>c. Environmental Documentation (CEQA/NEPA)</b>		X No	CEQA and NEPA are not required on Tribal lands unless required by project funder.	TBD	TBD
<b>d. Permitting</b>		X NA	Permits will not be necessary to complete specified projects on	NA	NA

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			Tribal lands.		
<b>e. Construction Contracting</b>		X No	Some phases of the project will require RFPs, bids, and contract execution.	TBD	TBD
<b>f. Construction Implementation</b>		X No	All phases of the project will include construction implementation.	TBD	TBD

<b>Provide explanation if more than one project stage is checked as current status</b>	Assessments and evaluations have been initiated on all phases, and completed for Phase 1. Final designs have been completed for Phase 1.
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### VIII. Project Technical Feasibility

Please provide any related documents (date, title, author, and page numbers) that describe and confirm the technical feasibility of the project.

<p><b>a. List the adopted planning documents the proposed project is consistent with or supported by (e.g. General Plans, UWMPs, GWMPs, Water Master Plans, Habitat Conservation Plans, TMDLs, Basin Plans, etc.)</b></p>	<p>Washoe Tribe Land Use Plan, Washoe Tribe Resource Management Plan, Washoe Tribe Development Planning System, Indian Health Services Woodfords Community Water System Report</p>
<p><b>b. List technical reports and studies supporting the feasibility of this project</b></p>	<p>Indian Health Services Woodfords Colony Community Water System Survey PWSID #0600362</p>
<p><b>c. Concisely describe the scientific basis (e.g. how much research has been conducted) of the proposed project in 300 words or less.</b></p>	<p>Ongoing water usage and waste research is conducted through leak detection and water meter usage assessments. This data will be used to identify water leaks and recommended infrastructure upgrades with in the water system.</p>
<p><b>d. Does the project implement green technology (e.g. alternate forms of energy, recycled materials, LID techniques, etc.)</b></p>	<p>X NA</p>
<p><b>1. If so please describe</b></p>	
<p><b>e. If you are an Urban Water Supplier<sup>1</sup>:</b></p>	
<p><b>1. Have you completed an Urban Water Management Plan and submitted to DWR?</b></p>	<p>X NA</p>
<p><b>2. Are you in compliance with AB1420?</b></p>	<p>X NA</p>
<p><b>3. Do you comply with the water meter requirements (CWC §525)</b></p>	<p>X NA</p>
<p><b>4. If the answer to any of the questions above is “no”, do you intend to comply prior to receiving project funding</b></p>	<p>X NA</p>
	<p>Provide Explanation if necessary:</p>
<p><b>f. If you are an Agricultural Water Supplier<sup>2</sup>:</b></p>	
<p><b>1. Have you completed and submitted an AWMP (due 12/31/12)?</b></p>	<p>X NA</p>
<p><b>2. If not, will you complete and submit an AWMP prior to receiving project funding?</b></p>	<p>X NA</p>
	<p>Provide Explanation if necessary:</p>
<p><b>g. If the project is related to groundwater:</b></p>	

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<b>1. Has a GWMP been completed and submitted for the subject basin?</b>	X NA
<b>2. If not will a GWMP be completed within 1 year of the grant submittal date?</b>	X NA

1. Urban Water Supplier is defined as a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually.

2. Agricultural Water Supplier is defined as a water supplier, either publicly or privately owned, providing water to 10,000 or more irrigated acres, excluding the acreage that receives recycled water.